

Purchase Order Receipt Listing

Friday, August 18, 2017 10:42:06 AM

All amounts are calculated in domestic currency.

Page | of |

All Vendors PO ID PO37410 All Receipt Dates
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Total Received Quantity:
Total Qty to Inspect (PO U/M):
Total Reject Quantity:
Total Receipt Value:
Total Balance Due Quantity:

JC
990436
B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

1830
No: PEC 59452
Ship Date 16Aug17 at 12:06 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
11862

(1)
Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G
1) Our Order PEC- 82255- 1 Your PO # 37410
ALUMINUM ROUND BAR 6061-T6511
6.50" DIA X 36.0000"

918870
Heat Number Tag No Quantity PCS Wt LBS
Z000022376 680930 3 FT 1 124

2) Our Order PEC- 82255- 2 Your PO # 37410
ALUMINUM ROUND BAR 6061 T6
10.00" DIA X 36.0000"

MTR
Heat Number Tag No Quantity PCS Wt LBS
22785376 680921 3 FT 1 284

TOTAL: Tags PCS Wt LBS
2 2 408

Heat Number *** Chemical Analysis ***
22785376
Z000022376

59721
517624
518799
MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 2 SKIDS GW. 440 LBS

SP
AUG 18 2017

Precision
Page: 1 ... Continued

517716

517717

518398 516895 - PLASTIQUE - ACIER INOX
ALUMINIUM - ETAIN - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Hay Larklin 18/08/18

/ / DATE

B I L L O F L A D I N G NO: PEC 59452
R I A L S N A Ship Date 16Aug17 at 12:06 From PFW
A D Probill
L4K 5C6 Via VIM DELIVERY
Fax: 905-738-9033 FOB CONCORD
1) Frt PREPAID
Route 0-0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

BILL OF LADING

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

***** TEL: 800-926-2600 *****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER. ***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE. ***

*** POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 2 . . . Last

**TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.**

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
VQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
6.50" DIA X 36.0000"
PART NO.

PO/Ref 37410

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-059452-001

16Aug17

Pg 1/1

Signed by:

Attn:

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:		
PEC-285336-2		R44/STK		KAISERSELECT PRECISON ROD 6.500 +/- .022		
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER	ALLOY:	TEMPER:	
6035531	002	07/28/2017	Z00022376	6061	T6511B	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAE/THKNS:	WIDTH:	LENGTH:	
1874.000 LB	4.000 PCS	619831			12.000 FT	
SHIP TO:		SOLD TO:				
THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				

DAS

Actual Physical Properties

14
9-89

17/08/22

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
200022376	0001	0001	56.9	53.5	15.6	RE	93	N/A
200022376	0002	0001	52.4	48.9	12.1	RE	92	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	C.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	C.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107490	.73	.26	.30	.09	.92	.09	.07	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION - 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00296243

Kaiser Order Number: 6035531

Line Item: C02

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR, 6061 T6

10.00" DIA X 36.0000"

PART NO.

Sapa*

Sapa Industrial Extensions
53 PORTSMOUTH STREET
CRESSONA, PA

17929-0187

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cart Number	Page
1101237247	2	PPEC-283895-002	SAPA2667373	2 of 2
			Cart Creation Date	Cart Print Date
			01-JUN-17	01-JUN-17

Alloy	Si	Fe	Cu	Mn	Ni	Cr	Zn	Ti	Others Each		Others Total	
									Min	Max	Min	Max
6061	0.15	0.35	0.05	0.13	0.94	0.16	0.10	0.02	0.05	0.15	0.05	0.15

Composition Results

Test Temp	# of Tests	UTS - L	Tensile	EL.40.40mg
		UTS - L	KSI	PCF
16	1	49.1	49.1	44.1

Mechanical Property - Test 1 limits

Test Temp	# of Tests	UTS - L	Tensile	EL.40.40mg
		UTS - L	KSI	PCF
16	1	49.1	49.1	44.1

Cert Notes

Product manufactured with a T651 temper also meet T6 temper requirements.

Yield strength has been determined by the 2% offset method.

All melt alloy's produced at Sapa Industrial Extensions comply with Directive 2011/65/EU (RoHS 2), with the exception of 6362 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Melted in the U.S. or "Qualifying Countries" (as defined in Defense Federal Acquisition Regulation Supplement (DFARS) Section 225.572-1)

Manufactured in the United States

Certificate of Mill Test Results

BL PEC-059452-002

16Aug17
Pg 2/2

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

Signed by:

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 R10.00
 DATE: 17/08/22

PO / BATCH NO.: 37410/138318

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 10.00
 THICKNESS RECEIVED: 10.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	N
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-09	SIGNED OFF BY: _____
DATE:	17/08/22	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MILD STEEL RL 500
 DATE: 17/08/22

PO / BATCH NO.: 37410/138319

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 13
 QUANTITY INSPECTED: 3
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 6.500
 THICKNESS RECEIVED: 6.500
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/>	AMS - QQ - A - 260/8
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	HEAT # 2000022376
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	MILD STEEL RL 500
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	138319
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
DAS		
INSPECTED BY:	14	SIGNED OFF BY: _____
	9-09	
DATE:	17/08/22	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

8

7

6

5

4

3

2

1

D

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117A/12B/4154115)

OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

A

PART NUMBER: M6061T6RD^DDA

B

WHERE "D,DDD" = DIAMETER IN INCHES

EG: 5/8" ROUND BAR = M6061T6R0.625

C

D

R10.00

RELEASED
R 2009-08-09
MFB

B	REFORMATT DWG. ADD B211& B221 SPEC (ZN B6-1), REV. PAR 06-020A.	CP	09-07-13
A	NEW ISSUE	DS	01-08-08
REV	DESCRIPTION	BY:	DATE
DESIGN	<i>JH</i>		
DRAWN	HAWKESBURY, ONTARIO, CANADA		
CHECKED			
MFG. APPR.	<i>AM</i>		
APPROVED	<i>AM</i>	TITLE	REV. B
DE APPR.	<i>AM</i>	6061-T6 ROUND BAR	SHEET 1 OF 1 SCALE NTS
DATE	09.07.13	Copyright © 2001 by DART AEROSPACE LTD. Not to be copied or reproduced without written permission from the copyright holder.	

SPECIFICATION CONTROL DRAWING

8 7 6 5 4 3 2 1

PURCHASE MATERIAL: 6061-T8/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4117A128A41154116)

OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R(D,DDD)

A

WHERE "D,DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

R 6.500

RELEASED
R 2009-09-09
Mp

B	REFORMATT DWG. ADD B211& B221 SPEC (2N 106-1), REF PART 08-020A	GP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>St</i>	DART AEROSPACE LTD	
DRAWN	<i>St</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>St</i>	DRAWING NO.	
MFG. APPR.	<i>St</i>	M6061T6R	REV. B
APPROVED	<i>Am</i>	TITLE	SHEET 1 OF 1
DE APPR.	<i>Am</i>	6061-T6 ROUND BAR	SCALE
DATE	09.07.13	NTS	NTS

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8 7 6 5 4 3 2 1



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37410**

Purchase Order Date 8/14/2017

PO Print Date 8/14/2017

Page Number 1 of 2

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
AUG 14 2017

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M6061T6R6.500	6061-T6 Round Bar 6.500"	8/17/2017 Yes 8/17/2017		3.00 f	\$122.00	\$366.00
2	M6061T6R10.000	6061-T6 Round Bar 10.00"	8/17/2017 Yes 8/17/2017		3.00 f	\$344.21	\$1,032.62

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$366.00

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

AUG 18 2017

Line Total: \$1,032.62

PO Instructions: pec st-81713

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37410**

Purchase Order Date 8/14/2017

PO Print Date 8/14/2017

Page Number 2 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

3	71401-45	procurement quality clauses	8/17/2017	1.00	\$0.00	\$0.00
		No				
	Procurement Quality Clauses		8/17/2017			
	A005 right of entry					
	A012 chemical and physical test report					
	A016 personnel qualification					
	A017 raw material identification (as applicable)					
	A026 certification of material conformance					
	A041 quality management system					
	A042 dart notification by supplier					
	A043 retention of quality document					

Line Total: \$0.00

PO Total: \$1,398.62

PO Instructions: pec st-81713

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 8/14/2017